

Claims

1. A method for providing a Virtual Private Network (VPN) service, comprising:
 - A. after receiving a call request for a VPN service from a user terminal, a Service Control Point (SCP) judging whether the user terminal has applied for a prepaid service at the same time, if so, executing step B, otherwise directly providing a traditional VPN service for the user terminal and ending the current flow; and
 - B. initiating a VPN service logic, invoking a prepaid service logic by the VPN service logic, and deducting fee from a prepaid account corresponding to the user terminal while providing the VPN service to the user terminal.
- 5 10. The method according to claim 1, step A further comprising the step of implementing VPN service authentication for the user terminal, if the user terminal passes the VPN service authentication, executing the step of judging whether the user terminal has applied for the prepaid service at the same time, otherwise returning a VPN service authentication failure message to the user terminal and ending the current flow.
- 15 15. The method according to claim 1, before step B, further comprising the step of implementing prepaid service authentication for the user terminal, if the user terminal passes the prepaid service authentication, executing step B, otherwise returning a prepaid service authentication failure message to the user terminal and ending the current flow.
- 20 20. The method according to claim 3, further comprising the step of presetting an authentication interface for the prepaid service, wherein implementing the prepaid service authentication for the user terminal is implemented by invoking the authentication interface set for the prepaid service.
- 25 25. The method according to claim 3, wherein the step of implementing the prepaid service authentication for the user terminal comprises the steps of: judging whether the user terminal's corresponding prepaid account is valid and judging whether there is sufficient balance in the prepaid account.
- 30 30. The method according to claim 1, further comprising the step of presetting a fee-applying interface for the prepaid service, before providing the VPN service for the user terminal, step B further comprising:
 - the VPN service logic invoking the fee-applying interface, the prepaid service logic applying for fees and notifying the VPN service logic of a fee application result; and

the VPN service logic judging whether the fee is obtained according to the fee application result, if so, providing the VPN service for the user terminal according to the fee application result, otherwise ending the current flow directly.

5 7. The method according to claim 1, further comprising the step of presetting a fee-deducting interface for the prepaid service, wherein the deducting operation in step B comprises:

when the call is finished, the VPN service logic invoking the fee-deducting interface and sending a fee-deducting request to the prepaid service logic, the prepaid service logic deducting a certain amount of fee from the applied fee after receiving the request.

10 8. The method according to claim 1, further comprising the step of presetting a fee-returning interface for the prepaid service, after the deducting operation in step B, the method further comprising: the VPN service logic judging whether there is remaining fee in the applied fee, if so, invoking the fee-returning interface and returning the remaining fee to the prepaid account corresponding to the user terminal; otherwise ending the
15 current flow directly.